Lab 4 Secure Coding Lab

19BCN7279 S.B.S.Praneeth

Python script to print hello world

C:\Users\user>cd Desktop

C:\Users\user\Desktop>python 19bcn7279.py Hello World 19BCN7279

Converting the script into exe file

```
\Users\user\Desktop>pip install pyinstaller
llecting pyinstaller
Downloading pyinstaller-4.2.tar.gz (3.6 MB)
                 Downloading pyinstaller-6.2.tar.gr (5.0 kg/s) | 3.5 MB 939 kB/s | 
                   Downloading pywin32-ctypes>=0.2.0

Downloading pywin32-ctypes>=0.2.0-py2.py3-none-any.whl (28 kB)

Downloading pyinstaller-hooks-contrib>=2020.6

Downloading pyinstaller-hooks-contrib>=2020.11-py2.py3-none-any.whl (172 kB)
                                          ting future
loading future-0.18.2.tar.gz (829 kB)
829 kB 1.7 MB/s
                   \Users\user\Desktopppyinstaller 19bcn7279.pp

72.1NF0. PyInstaller: 4.2

73.1NF0. Python: 3.6.6

74.1NF0. Platform: Windows-10-10.0.19041-SP0

75.1NF0. wrote C.\Users\user\Desktop\19bcn7279.spec

79.1NF0. UPX is not available.

76.1NF0. Extending PYTHOWFAH with paths

C:\Users\user\User\Desktop', "C:\Users\\user\Desktop']

9.1NF0. Schecking Analysis

9.1NF0. Schecking Analysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Activate Windows
]
S755 INFO: Warnings writen to C:\Users\user\Desktop\build\\19bcn7279\txt
6619 INFO: Graph cross-reference writen to C:\Users\user\Desktop\build\\19bcn7279\txt
6619 INFO: Graph cross-reference writen to C:\Users\user\Desktop\build\\19bcn7279\txref-19bcn7117.html
6641 INFO: Boilding PYZ because PYZ-00.toc is non existent
6641 INFO: Building PYZ (21lbArchive) C:\Users\user\Desktop\build\\19bcn7279\PYZ-00.pyz
6641 INFO: Building PYZ (21lbArchive) C:\Users\user\Desktop\build\\19bcn7279\PYZ-00.pyz
682 INFO: Checking PKG
882 INFO: Building PKG (CArchive) PKG-00.pkg
1082 INFO: Building PKG (CArchive) PKG-00.pkg
1081 INFO: Building PKG (CArchive) PKG-00.pkg
1081 INFO: Building PKG (CArchive) PKG-00.pkg
1081 INFO: Boilding PKG (CArchive) PKG-00.pkg
1082 INFO: Boilding PKG
1082 INFO: Boildi
                                                 Bootloader Columbia to Checking EXE
Building EXE because EXE-00.toc is non existent
```

Scheduling a task name "Python Execution on the first monday of every month

```
CC_Gommand Prompt

8624 INFO: Building COLLECT COLLECT-00.toc completed successfully.

C:\Users\user\Desktops\charks /Create /SC MONTHLY /D MON /TN "Python Execution" /TR "19bcn7279.exe" /ST 14:00

ERROR: Invalid value for /D option.

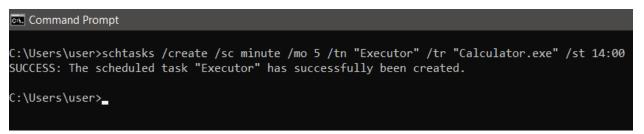
Type "SCHTASKS /CREATE /?" for usage.

C:\Users\user\Desktops\charks /Create /SC MONTHLY /D MONDAY /TN "Python Execution" /TR "19bcn7279.exe" /ST 14:00

ERROR: Invalid value for /D option.

Type "SCHTASKS /CREATE /?" for usage.
```

Scheduling a task named executor to run a calculator every 5 minutes from the start time



Scheduling a task named executor2 to run a notepad at 5pm and then termination at 5.40pm

```
C:\Users\user>schtasks /create /sc daily /tn "Executor2" /tr "notepad.exe" /st 17:00 /et 17:40
SUCCESS: The scheduled task "Executor2" has successfully been created.
C:\Users\user>
```

Defragmenting a disk

C:\Users\user>schtasks /create /sc daily /tn "Defragment F disk" /tr "defrag.exe F"
SUCCESS: The scheduled task "Defragment F disk" has successfully been created.
C:\Users\user>

Attrib Commands

- +r = This assigns the read-only file attribute to the file or directory.
- -r = This removes the read-only attribute.
- +s = This assigns the system file attribute to the file or directory.
- -s = This removes the system attribute.
- +h = This assigns the hidden file attribute to the file or directory.
- -h = This removes the hidden attribute.
- +c = This assigns the compressed file attribute to the file or directory.
- -c = This removes the compressed attribute.

Clearing recycle bin

```
C:\>rmdir /s %systemdrive%\$Recycle.bin
C:\$Recycle.bin, Are you sure (Y/N)? y
C:\$Recycle.bin\S-1-5-18 - Access is denied.
C:\$Recycle.bin\S-1-5-~1 - Access is denied.
Access is denied.
```

Powercfq

Used to manage and track the computer's energy

```
C:\Users\user>powercfg /energy
This command requires administrator privileges and must be executed from an elevated command prompt.
C:\Users\user>_
```

```
C:\Users\user>powercfg /lastwake
Wake History Count - 1
Wake History [0]
Wake Source Count - 0
C:\Users\user>_
```

```
C:\Users\user>powercfg /hibernate on
This command requires administrator privileges and must be executed from an elevated command prompt.
C:\Users\user>powercfg /hibernate off
This command requires administrator privileges and must be executed from an elevated command prompt.
C:\Users\user>_
```

```
C:\Users\user>powercfg /a
The following sleep states are available on this system:
    Standby (S3)
    Hibernate
    Hybrid Sleep
    Fast Startup

The following sleep states are not available on this system:
    Standby (S1)
        The system firmware does not support this standby state.

Standby (S2)
        The system firmware does not support this standby state.

Standby (S0 Low Power Idle)
        The system firmware does not support this standby state.

C:\Users\user>
```

Command Prompt

```
C:\Users\user>powercfg /devicequery s1_supported
USB Root Hub (USB 3.0)
Microsoft Print to PDF
Root Print Queue
Volume Manager
WAN Miniport (PPPOE)
Microsoft Basic Display Driver
TAP-Windows Adapter V9
WAN Miniport (PPTP)
Fax
Microsoft Hyper-V Virtualization Infrastructure Driver
WAN Miniport (IKEv2)
Composite Bus Enumerator
Microsoft Virtual Drive Enumerator
Microsoft Storage Spaces Controller
Microsoft Bluetooth LE Enumerator
Microsoft Kernel Debug Network Adapter
Stereo Mix (Realtek High Definition Audio)
Microsoft Wi-Fi Direct Virtual Adapter
Microsoft Wi-Fi Direct Virtual Adapter #2
Intel(R) Graphics Command Center
UMBus Root Bus Enumerator
Charge Arbitration Driver
Microphone Array (Realtek High Definition Audio)
ACPI x64-based PC
WAN Miniport (Network Monitor)
WAN Miniport (IP)
Microsoft Basic Render Driver
WAN Miniport (SSTP)
Microsoft Bluetooth Enumerator
Generic PnP Monitor (002)
Bluetooth Device (RFCOMM Protocol TDI)
Bluetooth Device (Personal Area Network)
Intel(R) Graphics Control Panel
OneNote (Desktop)
OneNote for Windows 10
NVIDIA Virtual Audio Device (Wave Extensible) (WDM)
NVVHCI Enumerator
NDIS Virtual Network Adapter Enumerator
Intel(R) Wireless Bluetooth(R)
Microsoft System Management BIOS Driver
Microsoft XPS Document Writer
Plug and Play Software Device Enumerator
Remote Desktop Device Redirector Bus
PDFescape Desktop
WAN Miniport (IPv6)
Speaker/Headphone (Realtek High Definition Audio)
WAN Miniport (L2TP)
```